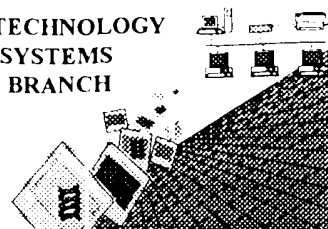BIOTECHNOLOGY
SYSTEMS
BRANCH

RAW SEQUENCE LISTING
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Revised 01/29/2002

RAW SEQUENCE LISTING   DATE: 01/09/2003
PATENT APPLICATION: US/09/421,106A   TIME: 10:55:55

Input Set : D:\SoyBac.txt
Output Set: N:\CRF4\01092003\I421106A.raw

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 2  <110> APPLICANT: Byrum, Joseph R.
 4  <120> TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
 5        PLANTS
 7  <130> FILE REFERENCE: 38-21(15598)B
 9  <140> CURRENT APPLICATION NUMBER: 09/421,106A
10  <141> CURRENT FILING DATE: 1999-10-15
12  <160> NUMBER OF SEQ ID NOS: 36938
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(handwritten: pp 1-8)

(handwritten stamp: Does Not Comply Corrected Diskette Needed)

ERRORED SEQUENCES

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14  <210> SEQ ID NO: 1
15  <211> LENGTH: 147
16  <212> TYPE: DNA
17  <213> ORGANISM: Glycine max
19  <223> OTHER INFORMATION: unsure at all n locations
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63  ttaggtta ttcatcatc taattacctt gcagacccta aaatcagaga agattgagtt   180
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67  aaatagtgaa gttgcagcgg tgatcacaga agatagtgat ctaatagcat atggctgtcc   300
69  agctgtaaga actcctccaa tactgtgata ttgcgcatgg aggtttactg cnnttttgat   360
71  atctgattt attactgt tcactattca gcttcataga aagcatgcat tttggatat   420
73  aat                                                                   423
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88  aaacagtaca gcagatgaaa atggtagg'c acattaacct tcacaatttg gcagcacaga   180
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RAW SEQUENCE LISTING   DATE: 01/09/2003
PATENT APPLICATION: US/09/421,106A   TIME: 10:55:57

Input Set : D:\SoyBac.txt
Output Set: N:\CRF4\01092003\I421106A.raw


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 92 ttactggtct ggtcatggtt cacagagctg gagaaaagat ttacagagca ttacaactac   300
 94 tggtccagca acctatcagt agctntctgt aactagcata gatgggaagc tattgaccaa   360
 96 atgtaacaat gtatctagtc tggattctaa cagagggacc ttcatcccac acagtcatac   420
 98 tcctgtattc ttagtaccc ggtacttttc tataatataa at                       462
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 394
103 <212> TYPE: DNA
104 <213> ORGANISM: Glycine max
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111 cnacaartct catcaatggg agagaaatgt tcatctaaag catacaagtc cctaatatta   120
113 ttaaatccta aaattgagc tcctagggag caaaacaatg tgtgtctct agagagggca     180
115 ttagctaccа cattgtttt tccttttttg tatttgataa catatggaaa ttgctctagg    240
117 tactctaccc atttgcatg cctcttggtt aacttgcttt gccctctaat gtacttaagt    300
119 gattcatgat cactatgaat gacaaattcc ttggaaacaa ggtgtcgcaa cctacccttc   360
121 ngcgggaggg cgacgcgtga ctcgcgggat gcgt                               394
124 <210> SEQ ID NO: 6
125 <211> LENGTH: 464
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136 agttacaaca agcttacaac atgcttctat ttatagacta ggtagcttcc ttgagaagct   180
138 ttcttgagga aacttcttg agaaacttct ttgaaaaaac ttccttgaga aggtagagct    240
140 tagctataca cacccatctc ataactaagc tcaactcctt gagaagtttc cataagaaga   300
142 ttcctaaaga agttagaagt tagctacaca taccttctcta atagctaagc tcacctcctt   360
144 gagatgggaa gctagagctn tgctacacac ccnctatgat agctaagctc accccatga   420
146 caaaatacat ganaatacaa aaaagatccc tactacaaag acta                    464
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150 <211> LENGTH: 373
151 <212> TYPE: DNA
152 <213> ORGANISM: Glycine max
154 <223> OTHER INFORMATION: unsure at all n locations
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161 tacaagttcg cttagcacac tgtttcgtct cactaagcgc accgcttcag tccatcagct   180
163 aagccagaaa ggcagcgcct aagccgaaat tcactaatgt gcgctaagcg gtccagaatt   240
165 cngctaagtg cacgagcacg aacaaggcca cctatttaag cttgaaatca gattttgtga   300
167 agggagtttg ggctaggatt cagagctttg catgtctaga gattctagag agagaaagt    360
169 gcaatttcag aga                                                      373
196 <210> SEQ ID NO: 9
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198 <212> TYPE: DNA
199 <213> ORGANISM: Glycine max
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RAW SEQUENCE LISTING   DATE: 01/09/2003
PATENT APPLICATION: US/09/421,106A   TIME: 10:55:57

Input Set : D:\SoyBac.txt
Output Set: N:\CRF4\01092003\I421106A.raw

⟨2207⟩

```
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206 taatcaataa tctatctttt acataatctt ctttcaacac ccttcaatca atcttcaat   120
208 atcttcttta atctctttca acattttcaa cagatctttc tgatttattt ccttcatct   180
210 ttctaaaagt tttgttcaa tagtttctct tccaagaaaa gttctttgtt caaaaacttc   240
211 agctattcat cttttcatt ctctctccc tttgccaaaa gaaggaagga ctaaccgcct   300
214 gaattttttt gtgtctctct tctcccttac aaaagattca naggactaac cgcctgatat 360
216 atcttttgtt tccccataca aagatttaaa ggactaactg cctgagaatt ctttgtccca  420
218 a                                                                  421
219 <210> SEQ ID NO: 10
220 <211> LENGTH: 404
221 <212> TYPE: DNA
222 <213> ORGANISM: Glycine max ⟨2207⟩
224 <223> OTHER INFORMATION: unsure at all n locations
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231 nagatgcacc aacsccgcct ctacatcagc ctccgtcctt agagtccatc tcagctcaca  120
233 tgcacaggat tgaccttcat atgccatgcat atatgcaaca tatggccgac caataggcgg  180
235 ccaatcatag gggtaggtg cagctgaatc aagagctttta ccagtacacc ctacgtcagc  240
237 agagctagga tccaagccct tactcgtggc ttactcccga gtagtttggg gccacagttg  300
239 natgcctgg agataggcac aattttcaag taggggacaag accctcaaag gcccaggag  360
241 ttgaagatgg agctcaagaa gacgacgaca tangcgatgt gatg                   404
243 <210> SEQ ID NO: 13
244 <211> LENGTH: 334
245 <212> TYPE: DNA
246 <213> ORGANISM: Glycine max ⟨2207⟩
248 <223> OTHER INFORMATION: unsure at all n locations
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292 agcttgcatc actttttact tttcatttcc atcgtactct tgcttcaaaa actgccaat  60
294 cttgttggtg tttttagtgt cattattcta atcaacatag tggatgatat tgctccaaac 120
296 aagattgctc ttgcctttga ctttctctat ctcctctcgn gatttttttt atttgagcaa 180
298 ccgttgattta tccagtaggg gtggaacttc gtatatgtct ttaatatctt cccatagatc 240
300 acaagcatca agatagggtt ccgttctaat agcctagagg tggtaatgtt ntccattgaa 300
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308 <211> LENGTH: 334
309 <212> TYPE: DNA
310 <213> ORGANISM: Glycine max ⟨2207⟩
312 <223> OTHER INFORMATION: unsure at all n locations
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339 actactagaa aaagagcttt ttgcgatgca cttacgacat cggtccaaca aaactgtcga  180
341 agtatattaa atggtgcatt tgtgtaatta caacgaaagt gtgcaccttg ccaattttat 240
343 ggttgacatt ggcaaaatc ccttgaaggt tgttggaagg gactcgagag tgaggaaact 300
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347 gttaggatag tanaattcac catt                                        384
365 <210> SEQ ID NO: 16
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RAW SEQUENCE LISTING   DATE: 01/09/2003
PATENT APPLICATION: US/09/421,106A   TIME: 19:55:57

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Output Set : N:\CRF4\01092003\I421106A.raw

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390  <212> TYPE: DNA
391  <213> ORGANISM: Glycine max      )<2207
393  <223> OTHER INFORMATION: unsure at all n locations
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398  gagaaatgtt agcaatatac tacgtatga cactgcatca cacactttat tatttgccac   120
400  aatttattgg aaataaaaa attttgtggg ttctattact tatttaatga acttcactcg   180
402  tgattttgga attttata aatttaaccc aataataata ataataqaqt gtgttactta    240
404  gaagcgatt gtattcttag cat tctctt gaagtatagc atacaaacat gaaaggaatt   300
```
W--> 406 ccattttaag tattatcctg taccanaacc tcactttagt ccccaattttt ggaaatcaca   360
W--> 408 gttcttttca ctgacaaatg acttacagtt ntagttaaaa atagggatta acaagagtgg   420
```
410  agcatacaag accagqaggg act                                          443
413  <210> SEQ ID NO: 19
414  <211> LENGTH: 396
415  <212> TYPE: DNA
416  <213> ORGANISM: Glycine max      )<2207
418  <223> OTHER INFORMATION: unsure at all n locations
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423  tttagtatt tcttcagt attgtgcta ctagaaac aagaataaga gaaaattaaa       120
425  ggtaatgaag ttagtacat gatatattga catttgtttt ttttttcttt ttttgtaatt  180
427  gat aaaaag acaaaatgg tgtttttat attaaggggc ctttcagaag aacttgtgaa   240
429  aat aaattga tcagtttaat ttcttatac ttcaagtgaa aagattttta tactatgaac  300
```
W--> 431 taaccaaaaa tcatcctatg attnttaata taattattat aaaattacca tacatcataa   360
W--> 433 tttgagaatg tagaaacat aaacaacgtt tacact   396
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438  <212> TYPE: DNA
439  <213> ORGANISM: Glycine max      )<2207
441  <223> OTHER INFORMATION: unsure at all n locations
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446  accttaaaa caaaatgc atacaactc ctccaataaa tacaaacatc aatgtaaatt     120
448  tacaacagc ttatgcaat attttcttac gaacattcac tcgcacaaga tattcttcta   180
450  actaagaaaa atggacgat gcacaatcaa ggcactttcg ttacctacat tatttgtatg   240
452  tacttcaag gtgacctacc tacaacacat gcattccttt ggctaaattt acatacatgc   300
454  atgcacaag cctcttgtct accaaaagtt gcacacatgc aaactttatg atgaatcttg  360
456  gatatctaa caataagttg ctacacttca tgctttatat caagtgtttt actaccagaa  420
458  gccacatgcg aatgtcagta tattttcttt tgccgacta                          455
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462  <211> LENGTH: 325
463  <212> TYPE: DNA
464  <213> ORGANISM: Glycine max      )<2207
466  <223> OTHER INFORMATION: unsure at all n locations
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475  aagccgaggc gcttccgtaa cgtttccgtg agtgatttg cgaaggtttt cgaccgttct   180
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RAW SEQUENCE LISTING   DATE: 01/09/2003
PATENT APPLICATION: US/09/421,106A   TIME: 10:55:57

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Output Set : N:\CRF4\01092003\I421106A.raw

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     487 <223> OTHER INFORMATION: unsure at all n locations
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     492 ctggaggatg cttgcttaaa agaggtccag gaaggacaag gcggccgaag gaactagttc   180
     493 cgccgcgttg tagccaggtc accgctttag gagcgttgta caccagcagc gcttcgaagc   240
     494 cattcaggta tgttcgtttc tccgggaggg acccgtccag ctcatggacg acgggtatac   300
     500 tgattttcag gagggaggag ggggccgggg gtaggcacca ttggttactc ccatggcaaa   360
     501 gttttatcta gaaatagtcc ttgagtttta t                                   391
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     538 ttagctaaa atatataat tattaaaag ggttctacaa cctcttatag aagcataact   240
     541 ctgaaaata cttttattag taaaaagaa aaaaaaact ttacgtcaca gaactcacta   300
     543 caagtgaaa aactaacaac attgtcggtt tgtactctgc agtctgcacg tgtttccata   360
     545 aagacaaaa cattgatttt aaattaatta atcgattaat actaccatca agtagtacca   420
     547 ancatatatt cttttctta                                                 438
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     596 aagcgagtcg gcttccgaaa cgtttccgta acgttccgt gaggaatttc gcgaaggttt   180
     598 cgaccgttct tcgaccgtct tcattcgttc ttcatcgttc ttcgatcttc aacgggtaag   240
     600 tacctcatac caagcttttc gattcattct atgtacctgt ggtggtccac attgtggttc   300
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RAW SEQUENCE LISTING   DATE: 01/09/2003
PATENT APPLICATION: US/09/421,106A   TIME: 10:55:57

Input File : D:\SoyBac.txt
Output Set : N:\CRF4\01092003\I421106A.raw

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W--> 641 ntatctatga actgtacaaa atacacgact cctcaattgt tctcaaaata attttatcta  180
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     645 cgcattaact cgtcgccctt agattcatac ttcacaaatc agggcacaca acatctcaat  300
     647 gcacatatat attacaagtc aatacatact caatttatca catacatttg gtctcaatca  360
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     680 <213> ORGANISM: Glycine max
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     689 tgcttgaaag agttccttgt caggactttg tccttaggat caccaatgat ctggactct  180
     691 agatgatctt tttgtagcaa tcatccagtt ggttctctga cttatagagg ttgatcatcc  241
W--> 693 actggtgagt tggacgcata ttggtcttga ctggacctag caacatattt cacgatattn  300
     695 tctactttca tctcagtaga agactcatct agctccaaca ttgtagtgtt aggcttattg  360
     697 tcattaagtc ttacgtgaat ggcctcttcc acagtcat                         398
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<212>      DNA
<213>      Artificial Sequence

<400>      36937

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see p. 8 for error explanation

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<210>      36938
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<212>      DNA
<213>      Artificial Sequence

<400>      36938

caccattttg cacctaagtt ga
```

Input Set : D:\SoyBac.txt
Output Set: N:\CRF4\01092003\I421106A.raw

Use of <220> Feature(NEW RULES):
Sequence(s)__are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or"Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:36937,36938